

SavitribaiPhule Pune University

(Formerly University of Pune)

Three Year B.A. and B.Sc. Degree Program in Geography (Faculty of Science & Technology)

S.Y.B.A. (Geography)

Choice Based Credit System Syllabus

To be implemented from Academic Year 2020-2021

Geography CC-1C	48 48	3
CC-1C 201(A) I OR Economic Geography -I Geography S1 Gg: Geography of Maharashtra 220(A) - I		
OR Economic Geography -I Geography S1 Gg: Geography of Maharashtra DSE - 1A 220(A) - I	48	3
Geography S1 Gg: Geography of Maharashtra III DSE – 1A 220(A) - I	48	3
Geography S1 Gg: Geography of Maharashtra III DSE – 1A 220(A) - I	48	3
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OR		
Population Geography – I		
Geography S2 Gg: Practical Geography – I	60	4
DSE – 2A 210(A) (Scale and Map		
Projections)		
SEC-I SEC - Introduction to	30	2
SEC -2A A Geographical Information		
System (GIS) /		
Applied Course of Disaster		
Management		
Geography G2 Gg: Environmental Geography	48	
CC-1C 201(B) II		
OR		
Economic Geography -II		
Geography S1 Gg: Geography of Maharashtra	48	3
IV DSE – 1B 210(B) – II		
OR		
Population Geography – II		
Geography S2 Gg: Practical Geography – II	60	4
DSE – 2B 220(B) (Cartographic Techniques,		
Surveying and Excursion /		
Village / Project Report)		
SEC-I SEC - & Introduction to Remote	30	2
SEC -2B B Sensing /		
Applied Course of Travel		
& Tourism		

S. Y. B. A. GEOGRAPHY Equivalence of Previous syllabus along with new syllabus:

Pager	Old Course (2013 Annual Pattern)	New Course (2019 Semester Pattern)
G2	Gg-210 Elements of Climatology	Gg: 210(A)Environmental Geography I
	and Oceanography	OR
	OR	Gg: 210(A)Economic Geography -I
G2	Gg-210 Geography of Disaster	Gg: 210(B)Environmental Geography II
	Management	OR
		Gg: 210(B)Economic Geography -II
S 1		Gg: 220(A)Geography of Maharashtra - I
	Gg-220 Economic Geography	OR
	OR	Gg: 220(A) Population Geography – I
S 1	Gg-220 Tourism Geography	Gg: 220(B) Geography of Maharashtra – II
		OR
		Gg: 220(B) Population Geography – II
S2		Gg: 201(A)Practical Geography – I (Scale
	Gg-201 Fundamentals of	and Map Projections)
S2	Geographical Analysis	Gg: 201(B)Practical Geography – II
		(Cartographic Techniques, Surveying and
		Excursion / Village / Project Report)

S.Y.B.A. Geography (G2) Syllabus for Semester III Name of Subject: Environment Geography- I, Subject Code: Gg.210 (A) Objectives:

- 1. To create the awareness about dynamic environment among the student.
- 2. To acquaint the students with fundamental concepts of environment geography for development in different areas.
- 3. The students should be able to integrate various factors of Environment and dynamic aspect of Environmental geography.
- 4. To make aware the students about the problems of environment, their utilization and conservation in the view of sustainable development

Sr.	Topic	Sub Topics	Teaching	Total
No.			Hours	Credits
1	Introduction to Environmental Geography	 Definition, Nature and scope of Environmental Geography. Types of Environment Importance of Environmental Geography Approaches to study of environmental Geography 	12	03
2	Ecosystem	 Meaning, concept and definition of ecosystem. Structure (Biotic and Abiotic factors) and food chain, Tropic Level, food web, energy flow 	12	

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		3.	Types of ecosystem		
			a) Equatorial Forest and		
			b) Pond Ecosystem		
3	Biodiversity and its	1.	Concept of biodiversity		
	conservation	2.	Economic value and potential		
			of biodiversity	12	
		3.	Loss of biodiversity and	12	
			hotspots in India		
		4.	Conservation of biodiversity		
4	Environmental Pollution	1.	Concept of Pollution		
		2.	Air pollution-Causes, effects		
			and control measures		
		3.	Water pollution-Causes,	12	
			effects and control measures		
		4.	Soil pollution-Causes, effects		
			and control measures		

- Miller G.T., 2004, Environmental Science Working with the Earth, Thomson Books Cole, Singapure
- 2. Saxena H.M., 2017, Environmental Geography (Ed III), Rawat Publicastions, Jaipur
- 3. Odum E.P. et al. 2005, Fundamentals of Ecology, Ceneage Learning, India
- 4. Sharma P.D.2015, Ecology and Environment, Rastogi Publications, Meerut
- 5. Kormondy, Edward J, 2012, Concept of Ecology, PHI Learning Pvt.Ltd, New Delhi
- 6. Singh R.B.(Eds) 2009, Biogeography and Biodiversity, Rawat Publications, Jaipur
- 7. Singh S, Prayag, 1997, Environment Geography, Pustak Bhawan, Allahabad
- 8. Chandana R.C.2002, Environmental Geography, Kalyani Publication, Ludhiana
- 9. Goudie A, 2001, The Nature of The Environment, Blackwell, Oxford
- 10. Gholap T. N., 2000, Environment Science, Nishikant Publications, Pune. (Marathi)
- 11. Choudhar A.H., & et. al., 2014, Disaster Management, Atharva Publication, Pune. (Marathi)
- 12. Musmade A. H., More J. C. 2014, Geography of Disaster Management, Diamond Publication, Pune. (Marathi)
- 13. Saptarshi P. G., More J. C., Ugale V. R., 2009, Geography and Natural Hazads, Diamond Publishing, Pune. (Marathi)

S.Y.B.A. Geography (G2) Syllabus for Semester IV Name of Subject: Environment Geography- II, Subject Code: Gg.210 (B) Objectives:

- 1. To create awareness about dynamic environment among the students.
- 2. To acquaint students with the fundamental concepts of Environment Geography.
- 3. To acquaint students about the past, presents and future utility and potentials of natural resources.

4. To make aware students about the problems of environment, its utilization and

conservation in the view of sustainable development.

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Environmental	1. Meaning and concepts of		
	Disaster	environmental disaster		
		2. Classification of Disaster		
		3. Natural Disaster		
		a) Earthquake b) Flood	12	
		4. Biological Disaster		
		a) Swine flu b) Novel Corona		
		(COVID-19)		
2	2 Environmental Problems	1. Global Warming and climate change		
		2. Ozone Depletion		
		3. Acid rain	12	
		4. Over use of chemical fertilizers,		03
		pesticides and insecticides		
3	Environmental	1. Need of Planning and Management		
	Planning and Management	2. Micro, macro and meso level		
		Planning and Management with	12	
		reference to India		
		3. Environmental impact assessment		
4	Environmental	1. Introduction of environmental		
	Policies	policies	1.2	
		2. Environmental education in India	12	
		3. Kyoto Protocol		

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- 1. Miller G.T., 2004, Environmental Science Working with the Earth, Thomson Books Cole, Singapure
- 2. Saxena H.M., 2017, Environmental Geography, (III ED) Rawat Publicastions, Jaipur
- 3. Odum E.P. et al. 2005, Fundamentals of Ecology, Ceneage Learning, India
- 4. Sharma P.D.2015, Ecology and Environment, Rastogi Publications, Meerut
- 5. Kormondy, Edward J, 2012, Concept of Ecology, PHI Learning Pvt. Ltd, New Delhi
- 6. Singh R.B.(Eds) 2009, Biogeography and Biodiversity, Rawat Publications, Jaipur
- 7. Singh S, Prayag, 1997, Environment Geography, Pustak Bhawan, Allahabad
- 8. Chandana R.C.2002, Environmental Geography, Kalyani Publication, Ludhiana
- 9. Goudie A, 2001, The Nature of The Environment, Blackwell, Oxford
- 10. Gholap T. N., 2000, Environment Science, Nishikant Publications, Pune. (Marathi)
- Choudhar A.H., & et. al., 2014, Disaster Management, Atharv Publication, Pune.
 (Marathi)
- 12. Musmade A. H., More J. C. 2014, Geography of Disaster Management, Diamond Publication, Pune. (Marathi)
- 13. Saptarshi P. G., More J. C., Ugale V. R., 2009, Geography and Natural Hazads, Diamond Publishing, Pune. (Marathi)

S.Y.B.A. Geography (G2) Syllabus for Semester III Name of Subject: Economic Geography- I, Subject Code: Gg.210 (A)

Objectives:

- 1. To introduce students to the basic principles and concepts of economic geography
- 2. To acquaint students with the applications to economic geography for development in different areas
- 3. The students should be able to integrate various factors of economic development and dynamic aspect of economic geography.

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Introduction to Economic Geography	 Definition, nature and scope of economic geography. Need and significance of economic geography Economic geography and its relation with social sciences Approaches of the study of economic geography 	12	
2	Economic Activity	 Introduction and concept of economic activity with problems and prospect Primary activity Secondary activity Tertiary activity 	12	
3	Concept and classification of resources	 Concept of resources Renewable energy Resources Hydro electricity Solar energy Wind energy Non-renewable Resources Coal, Iron ore Mineral oil Conservation of resources 	12	03
4	Agriculture	 Role of Agriculture in Indian economy Factors influencing agriculture in India a) Physical b) Socio-economic c) Political and cultural Agro-based industries in India a) Dairy industry b Cotton industry Agro –Tourism 	12	

- 1. Gautam A., 2010, Advance Economic Geography, Sharda Pustak Bhavan, Allahabad
- 2. Chauhan R. N., 2007, Basic Principles of Economic Geography, ABD Publishers, Jaipur
- 3. Padey P. N., Economic Geography, Nirali Publication, Pune
- 4. Sadhukhan S. K., 1994, Economic Geography An Appraisal of Resources, S Chand & Campany Ltd ,New Delhi
- 5. Roy P., Mukherjee S., 1993, Economic Geography: Resource Appraisal of resources-New Central Book Agency, Calcutta
- 6. Mannur H. G., 2008, International Economics, Vikas Publishing House PvtLtd, Noida
- 7. Siddharth K., 2003, Economic Geography, Theories, Processes & Patterns, Kisalaya Publications Pvt, Ltd, Noida
- 8. Husain M., 2008, Geography of India, Tata McGraw Hill, New Delhi
- 9. Bhat L. S., 1973, Regional Planning in India, Statistical Publishing Society, Kolkata
- 10. Desai V,1991, Fundamentals of Rural Development, Rawat Publications, New Delhi
- 11. Paranjape, Gupte, Karmarkar, 1974, Economic & Commercial Geography, Nirali Publication, Pune.
- 12. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune
- 13. Pagar S.D., Thorat A. M., More J. C., 2015, Agriculture Geography, Atharav Publication, Pune.

S.Y.B.A. Geography (G2) Syllabus for Semester IV Name of Subject: Economic Geography- II, Subject Code: Gg.210 (B) Objectives:

- 1. To acquaint students with the basic principles and concepts of economic geography
- 2. To acquaint the students with the applications to economic geography for development in different areas.
- 3. The main aims are to integrate the various factors of economic development and to acquaint the students with this dynamic aspect of economic geography.

Sr.No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Trade and Transport	1.Modes of Transportation and their cost effectiveness Significance of a) Road b) Rail c) Air 2.Treansportation cost of Major types 3,Types of Trade a) National b) International 4.International trade of India	12	
2	Industries	 Factors influencing on location of industries. Weber's theory of industrial location Major industrial regions in India a) Iron and steel industry in India b) Sugar Industry in Maharashtra 	12	03
3	Regional Planning Development	 Concept of regional planning and development. Their importance Objectives of regional planning Regional and sectoral imbalance in India 	12	
4	Rural Development in India	 Concept of rural development Index of rural development Various schemes of government for rural development IRD Programme DPAD Programme 	12	

- 1. Gautam A., 2010, Advance Economic Geography, Sharda Pustak Bhavan, Allahabad
- 2. Chauhan R. N., 2007, Basic Principles of Economic Geography, ABD Publishers, Jaipur
- 3. Padey P. N., Economic Geography, Nirali Publication, Pune
- 4. Sadhukhan S. K., 1994, Economic Geography An Appraisal of Resources, S Chand & Campany Ltd ,New Delhi
- 5. Roy P., Mukherjee S., 1993, Economic Geography: Resource Appraisal of resources-New Central Book Agency, Calcutta
- 6. Mannur H. G., 2008, International Economics, Vikas Publishing House Pvt Ltd, Noida
- 7. Siddharth K., 2003, Economic Geography, Theories, Processes & Patterns, Kisalaya Publications Pvt, Ltd, Noida
- 8. Husain M., 2008, Geography of India, Tata McGraw Hill, New Delhi
- 9. Bhat L. S., 1973, Regional Planning in India, Statistical Publishing Society, Kolkata
- 10. Desai V,1991, Fundamentals of Rural Development, Rawat Publications, New Delhi
- 11. Paranjape, Gupte, Karmarkar, 1974, Economic & Commercial Geography, Nirali Publication, Pune.
- 12. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune
- 13. Pagar S.D., Thorat A. M., More J. C., 2015, Agriculture Geography, Atharav Publication, Pune.

S.Y.B.A. Geography (S1)Syllabus for Semester III Name of Subject: Population Geography, Subject Code: Gg.220 (A)

Objectives:

- 1. To understand the history of population.
- 2. To introduction of the basic concepts in Population Geography.
- 3. To understand the types of Population data.

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Introduction	1. Definition, Nature and Scope,		
		2. Contextual significance of Population	12	
		Geography,		
		3. Relation between Population Geography		
		and other social Sciences.		
2	Population Data& Presentation	1. Census of India	12	
		2. National Sample Survey, Sample	12	
		Registration Survey, NFHS, DLHS,		03
		3. Presentation of Population Data – Maps,		
		Graphical Presentation, Computer		
		Application		
3	Population Growth and Demographic	1. Factors affecting Growth of Population		
	Attributes	2. Fertility, Mortality - (Concept,	12	
		Measurement)		
		3. Migration - Concept, Causes, Types		
4	Composition of Population	1. Age-Sex pyramid, Age Structure		
	Topulation	2. Occupational Structure, Dependency	12	
		Ratio		
		3. Longevity, Life Expectancy. (with		
		Reference to India)		

- 1. Barrett H. R., 1995, Population Geography, Oliver and Boyd Publication,
- 2. Bhende A. and Kanitkar T., 2000, Principles of Population Studies, Himalaya Publishing House.
- 3. Chandna R. C. and Sidhu M. S., 1980, An Introduction to Population Geography, Kalyani Publishers.
- 4. Clarke J. I., 1965, Population Geography, Pergamon Press, Oxford.
- 5. Jones, H. R., 2000, Population Geography, 3rd ed., Paul Chapman, London.
- 6. Lutz W., Warren C. S. and Scherbov S.,2004, The End of the World Population Growth in the 21st Century, Earth scan
- 7. New bold K. B.,2009, Population Geography Tools and Issues, Rowman and Littlefield Publishers.
- 8. Pacione M., 1986, Population Geography-Progress and Prospect, Taylor and Francis.
- 9. Wilson M. G. A., 1968, Population Geography, Nelson Publishers.
- 10. Panda B P, 1988, Population Geography, Granth Academy, Bhopal (Hindi)
- 11. Maurya S D, 2009, Population Geography, Sharda Putak Bhawan, Allahabad (Hindi)
- 12. Chandna, R C, 2006, Population Geography, Kalyani Publishers, Delhi. (Hindi)
- 13. Sawant, Athavale, Musmade, Population Geography, Mehta Pubication, Pune. (Marathi)
- 14. More J. C.,2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune (Marathi)
- 15. Musmade A.H., Sonawane A.E., More J.C., 2015, Population & Settlement Geography, Diamond Publication Pune. (Marathi)

S.Y.B.A. Geography (S1), Syllabus for Semester IV Name of Subject: Population Geography, Subject Code: Gg.220 (B)

Objectives:

- 1. To introduce students to the Population Policy of India and China.
- 2. To understand the Health indicator in India.
- 3. To acquaint students with the concept of urbanization in population geography.
- 4. To understand population theories.

Sr. No.	Topic		Sub Topics	Teaching Hours	Total Credits
1	Concept and theories of	1.	Population and space: over	10	
	Population		Population, Optimum	12	
			Population, Under		
			Population		
		2.	Malthusian Theory		
		3.	Marxian Theory		03
2	Problems of Population	1.	Population Problems in		
	and Population Polices		India.	12	
		2.	Population Problems in	12	
			developed countries		
		3.	Population Policies in India		
			and China		
3	Population as a	1.	Health Indicator in India		
	Resources Contemporary Issues	2.	Population as Social Capital	12	
		3.	Human Development Index.		
4	Urbanization	1.	Concept of urbanization		
		2.	History of urbanization in	12	
			India, Trends of World	12	
			urbanization.		
		3.	Problems of Urbanization in		
			India		

- 1. Barrett H. R., 1995, Population Geography, Oliver and Boyd Publication,
- 2. Bhende A. and Kanitkar T., 2000, Principles of Population Studies, Himalaya Publishing

House.

- 3. Chandna R. C. and Sidhu M. S., 1980, An Introduction to Population Geography, Kalyani Publishers
- 4. Clarke J. I., 1965, Population Geography, Pergamon Press, Oxford.
- 5. Jones, H. R., 2000, Population Geography, 3rd ed., Paul Chapman, London.
- 6. Lutz W., Warren C. S. and Scherbov S.,2004, The End of the World Population Growth in the 21st Century, Earth scan
- 7. New bold K. B.,2009, Population Geography Tools and Issues, Rowman and Littlefield Publishers.
- 8. Pacione M., 1986, Population Geography-Progress and Prospect, Taylor and Francis.
- 9. Wilson M. G. A., 1968, Population Geography, Nelson Publishers.
- 10. Panda B P, 1988, Population Geography, Granth Academy, Bhopal (Hindi)
- 11. Maurya S D, 2009, Population Geography, Sharda Putak Bhawan, Allahabad (Hindi)
- 12. Chandna, R C, 2006, Population Geography, Kalyani Publishers, Delhi. (Hindi)
- 13. Sawant, Athavale, Musmade, Population Geography, Mehta Pubication, Pune. (Marathi)
- 14. More J. C.,2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune (Marathi)
- 15. Musmade A.H., Sonawane A.E., More J.C., 2015, Population & Settlement Geography, Diamond Publication Pune. (Marathi)

S.Y.B.A. Geography (S1), Syllabus for Semester III

Name of Subject: Geography of Maharashtra, Subject Code: Gg.220 (A)

Objectives:

- 1. To acquaint students with Geography of our State.
- 2. To make students aware of the magnitude of problems and prospects in Maharashtra.
- 3. To help students understand the inter relationship between the subject and the society.
- 4. To help students understand the recent trends in regional studies

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Administrative Set	Historical and Political	Hours	Credits
	up of Maharashtra	Background of the state		
		2. Geographical location of State	12	
		3. Adjoining States		
		4. Administrative Divisions		
2	Physical settings	1. Geological Structure of		
		Maharashtra.	12	
		2. Physical Structure (Mountain,		
		plateau, Plains)		
		3. Drainage Pattern (East and West		
		flowing rivers)		
		4. Major Soil types and Distribution.		03
3	Climate	1. Climatic Regions of Maharashtra		
		2. Distribution of Rainfall		
		3. Draught prone areas- Problems and	12	
		Management		
		4. Flood areas - Problems and		
		Management		
4	Resources	 Water :Problems in Utilization and conservation Forest : Types and Conservation Mineral; Iron ore, Manganese and Bauxite Power : Hydro, Thermal, Atomic 	12	

- 1. Dikshit K.R., Maharashtra in Maps,
- 2. Deshpande C. D., Maharashtra
- 3. Sadhu Arun, Maharashtra, National Book Trust
- 4. Savadi A. B., Geography of Maharashtra: Nirali Prakashan, Pune.
- 5. Dastane S., Maharashtra, Ramchandra and company, Pune
- 6. Sawadi A. B., The Mega State Series: Nirali Publication, Pune.
- 7. Maharashtra state Agricultural Atlas
- 8. Karve I., Maharashtra its Land and people,
- 9. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune (Marathi)

S.Y.B.A. Geography (S1), Syllabus for Semester IV Name of Subject: Geography of Maharashtra, Subject Code: Gg.220 (B)Objective:

- 1. To make students aware about the Agriculture problems and prospects of Maharashtra.
- 2. To understand the population distribution and settlement pattern in Maharashtra.
- 3. To understand the concept of rural development.
- 4. To understand the prospectus in Tourism activity in Maharashtra and the role of MTDC and Role of MIDC in industrial development in rural area of Maharashtra

Sr.	Topic	Sub Topic & Learning Point	Hours	Credits
No.				
1	Agriculture	1. Importance of Agriculture in Economy of		
		Maharashtra	12	
		2. Major Crops - Wheat, Rice, Jawar, Bajra.		
		3. Cash Crops and Horticulture - Cotton, Sugarcane,		
		Pomegranate, Grapes.		
		4. Problems of agriculture in Maharashtra.		
2	Population and	1. Population distribution of Maharashtra		
	Settlement	2. Population composition - Sex Ratio, Literacy,		03
		Occupational structure, Migration	12	
		3. Rural and Urban Settlements		
		4. Potential of Major Cities in Maharashtra –		
		Mumbai, Pune, Nagpur		
3	Rural	Concept of Rural Development		
	Development of Maharashtra	2. Parameters of Rural Development	12	
	or wantarasitra	3. Schemes For Rural Development		
		4. Case Studies – Hivare Bazar and Ralegan Siddhi		
		(Ahmednagar), Patoda (Aurangabad)		
4	Tourism	1. Growth and development of tourism in		
		Maharashtra		
		2. Tourism Potential of Maharashtra	12	
		3. Agro-Tourism		
		4. Role of MTDC		

- 1. Dikshit K.R., Maharashtra in Maps,
- 2. Deshpande C. D., Maharashtra
- 3. Sadhu Arun, Maharashtra, National Book Trust
- 4. Savadi A. B., Geography of Maharashtra: NiraliPrakashan, Pune.
- 5. Dastane S., Maharashtra, Ramchandra and company, Pune
- 6. Sawadi A. B., The Mega State Series: Nirali Publication, Pune.
- 7. Maharashtra state Agricultural Atlas
- 8. Karve I., Maharashtra its Land and people,
- 9. More J. C., 2014, Geography & Agriculture For MPSC Examination, Atharv Publication, Pune (Marathi)

S.Y.B.A. Geography (S2), Syllabus for Semester III Name of the Subject: Scale and Map Projection, subject Code: Gg. 201 (A) Practical Geography-I No. of Credits: 04

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Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Objectives of Course:

- 1. To introduce the basic concepts in Practical Geography
- 2. To enable students to use various Scales and Projection Techniques in Geography.
- **3.** To acquaint students with the utility of various Projections in Geographical knowledge.
- **4.** To explain the elementary and essential principles of practical work in Geography.

Course Outcome:

After the successful completion of the course, the students will be able to:

- 1. Develop practical skill and use of map scale and projection.
- 2. To make students aware of the new techniques, accuracy and skills of map making.

Note:

- 1. Use of Map stencils, Log tables, Calculator, computer, Statistical Tables is allowed at the time of Examination.
- 2. Students must check the practical's regularly and Journal should be certified by practical in-charge and Head of the Department before the examination.
- 3. Students without a certified journal should not be allowed for the practical examination.
- 4. Each of the practical batches needs a separate question paper.

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Sr.	Topic	Sub Topic & Learning Point	No of	Credits	
No.			Practical		
1.	Introduction	1. Definition of Map			
	of Maps	2. Elements of Map			
	_	3. Classification of Map:			
		a. On the basis of scale:			
		i) Small scale	0.2		
		ii) Large Scale	03		
		b. On the basis of function:			
		i) Physical			
		ii) Cultural			
		4. Use of map			
2.	Map Scale	Definition of Map Scale.			
	_	2. Types of Map Scale			
		a. Verbal Scale			
		b. Numerical Scale			
		c. Graphical Scale			
		3. Conversion Scale (British and Metric	06		
		System)			
		a. Verbal scale to Representative fraction			
		b. Representative fraction into Verbal scale		04	
		4. Construction of Simple Graphical scale (At			
		least two examples from each)			
3.	Basic of map	1. Definition and types of map projection			
	projection	2. Basic Concepts of Projection: Latitude,			
		Longitude, Parallel of latitude, Meridian of			
		longitude, Prime meridian, Equator,	0.4		
		Direction	04		
		3. Calculation of time basis on meridian and			
		GMT (Calculation of minimum two			
		examples)			
4.	Construction,	Zenithal Projection			
	properties	a. Zenithal Polar Gnomonic Projection			
	and use of	2. Conical Projection			
	map	a. Conical projection with one standard			
	projections	parallel/Simple conical projection	07		
		3. Cylindrical Projection			
		a. Cylindrical equal area projection			
		4. Mercator projection			
		(At least two examples from each projection)			

- 1. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
- 2. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
- 3. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- 4. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.
- 5. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
- 6. Singh R. L. and Duttta P. K., 2012, Prayogatama Bhugol, Central Book Depot, Allahabad
- 7. Ahirrao Y., Karanjkhele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
- 8. Saptarshi P. G., Jog S. R., Statistical Methods,
- 9. Karlekar S. N., 2008, Statistical Methods, Diamond Publication, Pune
- 10. Kanetkar T. P., Kulkarni S. V., 1986, Surveying and Leveling, Pune Vidyrthi Griha Publication, Pune
- 11. Kumbhare A., Practical Geography,
- 12. Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata

S.Y.B.A. Geography (S2), Syllabus for Semester IV Name of the Subject: Cartographic Techniques, Surveying and Excursion / Village / Project Report subject Code: Gg. 201 (B) Practical Geography-II No. of Credits: 04

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Workload: Six Periods per week per batch consisting of 12 Students; however the last batch needs to have more than six students.

(Examination for the course will be conducted at the end of the semester)

Objectives of Course:

- 1. To introduce the students to the basic and contemporary concepts in Cartography.
- 2. To acquaint the students with the utility and applications of various Cartographic Techniques.
- 3. To introduce the latest concepts regarding the modern cartography in the field of Geography.
- 4. To explain the elementary and essential principles of practical work in Geography.

Course Outcome:

After the successful completion of the course, the students will be able to:

- 1. Develop practical knowledge and application of cartographical techniques.
- 2. To make students aware of the new techniques, accuracy and skills of Map Making.

Note:

- 1. Use of Map stencils, Log tables, Calculators, Statistical Tables is allowed at the time of Examination.
- 2. Journal completion by the students and the certified by practical in-charge and Head of the Department is compulsory.
- 3. Students without a certified journal should not be allowed for the practical examination.
- 4. Each of the practical batches needs a separate question paper.

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CBSE: 2020-21 S.Y.B.A. Geography

CR21	E: 2020-21	S.Y.B.A.	G	eography
Sr. No.	Topic	Sub Topic & Learning Point	No of Practical	Credits
1.	Introduction to Cartography Cartographic	 Definition of Cartography Development of cartography a. Traditional b. Modern Use of Cartography Techniques of representation of data 	02	
	techniques	(Use and limitations) a. Simple line graph b. Simple bar Graph c. Pie diagram d. Choropleth Map e. Isopleth Method (Isoheight or	06	
3.	Surveying	 Definition of Surveying Types of North Direction (True, Magnetic and Grid North) Types of Survey (Any three) a. Plane Table Survey: (Radiation Method and Intersection Method) b. GPS Survey and plotting c. Dumpy level / Auto level survey	08	04
4.	Excursion / village/city survey and report writing	Study tour to places of geographical interest anywhere in the country Or Socio- economic survey of village/city	04	

Reference Books:

- 1. Sharma J. P., 2010, Prayogic Bhugol, Rastogi Publishers, Meerut.
- 2. Singh R. L. and Singh R. P. B., 1999, Elements of Practical Geography, Kalyani Publishers.
- 3. Slocum T. A., Mcmaster R. B. and Kessler F. C., 2008, Thematic Cartography and Geovisualization (3rd Edition), Prentice Hall.
- 4. Tyner J. A., 2010, Principles of Map Design, The Guilford Press.
- 5. Sarkar A., 2015, Practical Geography: A Systematic Approach, Orient Black Swan Private Ltd., New Delhi
- 6. Singh R. L. and Duttta P. K., 2012, Prayogatama Bhugol, Central Book Depot, Allahabad
- 7. Ahirrao Y., Karanjkhele E. K., 2002, Practical Geography, Sudarshan Publication, Nashik
- 8. Saptarshi P. G., Jog S. R., Statistical Methods,
- 9. Karlekar S. N., 2008, Statistical Methods, Diamond Publication, Pune
- 10. Kanetkar T. P., Kulkarni S. V., 1986, Surveying and Leveling, Pune Vidyrthi Griha Publication, Pune
- 11. Kumbhare A., Practical Geography,
- 12. Saha P., Basu P., 2007, Advanced Practical Geography, Books and Allied (P) Ltd, Kolkata
- 13. Advanced Practical Geography: 2007, Saha P., Basu P., Books and Allied (P) Ltd, Kolkata

S.Y.B.A. Geography Syllabus

Total Periods: 30

Name of Subject: Introduction to Geographic Information System Subject Code: SEC - A, Semester - III

Total Credit:02,

Objectives:

- 1. To introduce the students about the basic concepts of GIS.
- 2. To acquaint the students with the utility and applications of GIS Technique.
- 3. To create the awareness about Geospatial technology among the students.
- 4. To inculcate skill of map making among the students by using GIS Technique.

CBSE: 2020-21 S.Y.B.A. Geography

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Introduction to GIS	 Definition of GIS Stages of GIS Development Objectives of GIS Components GIS GIS Applications 	06	
2	Data Types & Models	 Spatial Data – Concept, Sources; Data Models – Raster & Vector Non-spatial Data – Concept, Sources; Data Models – Relational, Network, Hierarchical & Object- orientated 	06	2
3	Software based Practical	 Geo-referencing of Toposheet/Map Digitization of Point, Line & Polygon (at least one layer of each) Data Attachment Creation of Layout and Map 	18	

Course Outcomes:

On successfully completion of this course, the students will able to -

- Comprehend knowledge about the concepts in GIS.
- Acquire skills of map making using GIS.

Reference Books:

- Burrough, P. A. and McDonnell, R. A. (2000): Principles of Geographical Information Systems, Oxford University Press, New York.
- Chang, K. T. (2008): Introduction to Geographic Information Systems, Avenue of the Americas, McGraw-Hill, New York.
- Debashis, C. and Sahoo, R. N. (2015): Fundamentals of Geographic Information System, Viva Books Private Limited.
- DeMers, M. N. (2008): Fundamentals of Geographic Information Systems, John Wiley and Sons, New Delhi.
- Heywood, I., Cornelius, S. and Carver, S. (2011): An Introduction to Geographical Information Systems, Pearson Education, New Delhi.
- Karlekar, S. (2007): Bhaugolik Mahiti Pranali (GIS), Diamond Publications, Pune.
- Korte, G. B. (2001): The GIS Book, Onward Press, Bangalore.
- Longley, P. A., Goodchild, M. F., Maguire, D. J. and Rhind, D. W. (2002): Geographical Information Systems and Science, John Wiley & Sons, Chichester.
- Lo Albert, C. P., Yeung and Albert K. W. (2002): Concepts and Techniques of Geographical Information Systems, Prentice Hall of India, New Delhi.
- Pandey, J. and Pathak D. (2015): Geographic Information System, TERI Press, The Energy and Resources Institute, New Delhi.
- Paul, A. L., Michel, F. G., Maguire, D. J. and Rhind, D.W. (2002): Introduction to Geographic Information Systems and Science, John Wiley and Sons Ltd.

S.Y.B.A. Geography Syllabus Name of Subject: APPLIED COURSE OF DISASTER MANAGEMENT

Subject Code: SEC - A Semester - III

Total Periods: 30

Total Credit:02,

Objectives:

The objectives of the course are to develop following Skills among the students

- 1.To introduce basic concepts and fundamental structure of Disaster Management (DM).
- 2.To inculcate critical thinking and problem-solving abilities on disaster management.
- 3.To enable students to assess the situation and design plan for Disaster management

Unit	Topic	Sub Topics	Teaching	Total
no.			Hours	Credits
1	Fundamental Concepts, Measurement / Parameter and Types of Disasters	 a) Disaster, Hazard, Risk, Vulnerability, Resilient b) Magnitude, Intensity, Frequency, Duration, Spatial dispersion c) Natural Disaster and Man- Made Disaster (Types and Definition) 	06	
2	Phases of Disaster Management Role of Geographers and organizations	 a) Concept: Mitigation, Preparedness, Response, Recovery, Rehabilitation. b) Role of Geographers: Approaches; Application of GIS and RS in DM c) Introduction to National, State level organisations and Role of District level organisation. 	08	02
3	Comparative Assessment of Disaster Management- I	a) Earthquake: - India and Japan b) Flood:- India and Netherland c) COVID-19: India and Germany	08	
4	Assessment of Disaster Management- II	Assignment based on Primary or secondary data on any one Geographical scale-local/ regional/national/ global	08	

- 1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)
- 2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
- 3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
- 4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
- 5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.
- 6. Dr. Mrinalini Pandey (2017) Disaster Management, Wiley India Pvt. Ltd.

- 7. Tushar Bhattacharya (2018) Disaster Science and Management, McGraw Hill Education (India) Pvt. Ltd.
- 9. Arjun Musmade, Jyotiram More (2014) Geography of Disaster Management, Diamond Publication, Pune. (Marathi)
- 10. P. P. Marathe (2010), Disaster Management Concepts & Practices Diamond Publication, Pune. (Marathi)

S.Y.B.A. Geography Syllabus

Name of Subject: Introduction to Remote Sensing

Subject Code: SEC-B Semester – IV

Total Credit:02, Total Periods: 30

Objectives:

- 1. To introduce the students about the basic concepts of Remote Sensing.
- 2. To acquaint the students with the utility of RS and its applications.

3. To inculcate the skill of satellite image interpretation among the students.

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Introduction to Remote Sensing	 Concept, Definition and Types of RS Development of RS in India Stages in RS Electromagnetic Spectrum Applications of RS 	07	
2	Image Interpretation	 Elements of Visual Image Interpretation Visual Image Interpretation of Satellite Images i.e. IRS and LANDSAT 	07	2
3	Software based Practical	 Image Downloading through Bhuvan/USGS Layer Stacking Image Enhancement Image Classification - Unsupervised 	16	

Course Outcomes:

On successfully completion of this course, the students will able to -

- Obtain knowledge about the concepts of remote sensing.
- Acquire skills in visual interpretation of satellite images.

- Anji Reddy, M. (2008): Textbook of Remote Sensing and Geographic Information System, B.S. Publication, Hyderabad.
- Bhatta B., (2011): Remote Sensing and GIS, Oxford University Press, India.
- Campbell, J. (2002): Introduction to Remote Sensing, Taylor & Francis, London.
- Cracknell, A.P. (1991): Introduction to Remote Sensing, Tylor & Francis, London.
- Gupta, R.P. (1990): Remote Sensing Geology. Springer Verlag.
- Heywood, I., Steve, C. and Cornelius, S. (2003): An Introduction to Geographical Information Systems, Pearson Education.

- Jensen, J. R. (2000): Remote Sensing of the Environment: An Earth resource Perspective, Prentice Hall.
- Jensen, J. R. (2005): Introductory Digital Image Processing, Prentice Hall, New Jersey.
- Joseph, G. (2004): Fundamentals of Remote Sensing, Universities Press, Hyderabad, India.
- Karlekar, S. (2006): Doorsamvedan Remote Sensing (Marathi), Diamond Publications, Pune.
- Karlekar, S. (2017): Dursamvedan Aani Bhougolik Mahiti Pranali (Marathi), Diamond Publications, Pune.
- Lillesand, T. M., Kiefer, R. W. and Chipman, J. W. (2016): Remote Sensing and Image Interpretation, 6th Edition, Wiley India.
- Rao R. M. (2002): Geographical Information Systems, Rawat Publication.
- Sabins, F. F. (1996): Remote Sensing: Principles and Interpretation, W.H. Freeman and Company, San Francisco.

.Y.B.A. Geography Syllabus Name of Subject: APPLIED COURSE OF Travel & Tourism

Subject Code: SEC – B Semester -IV

Total Credit:02, Total Periods: 30

Objectives

- 1. To develop basic framework to understand the various elements of tourism management.
- 2. To evaluate the role of transport in travel and tourism industry.
- 3. To develop the skills to arrange, manage and implement various types of tours.

Skills to be developed:

- 1. Students will be able to perform online as well as offline booking and cancellation procedures for different available modes of travel and tourism.
- 2. Students will be able to acquire earning skills in tourism industry.

Introduction to Tourism			
Unit No.	Topic	Learning Point	Periods
1 Introduction		1.1 Basic concepts: Travel, Tourism, Tourist, Transport	05
	to Travel and	1.2 Types of Tourist and Tourism	
	Tourism	1.3 Types of transportation	
		1.4 Supporting Infrastructure: Transportation, Accommodation,	
		Communication facility, Security, Finance, Tourist Guide	
		and Government Policy (Only short introduction)	
2	Local	2.1 Concept and need of local tourism	05
	Tourism	2.2 Introduction to local tourist places	
		2.3 Potential of local tourism and available infrastructure	
3	Tour	3.1 Basic skills: Communication, Time Management, Computer	10

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	planning and	operating, online booking, Net banking, Cancellation of	
	Skill	booking and ticket, etc.	
development		3.2 Framing the tour plan (Itinerary): Budget (Costing),	
	•	Duration, Insurance, Route and other requirements for	
		individual, family, group and mass level tours	
		3.3 Promotion of tourism	
		3.4 Plan for educational tour (long or short): Permission for	
		tour, ticket booking, students concession and ticket	
		cancellation, etc.	
4	Project work	4.1 Itinerary design of short or long tour (local, state level and	10
and Visit to tourist place		national level: Cost, duration, requirements, booking	
		processes for transportation (Railway, Air and Road) and	
		Accommodations (Youth hostel, Resort, Dormitory, Hotels,	
		•	
		Service Apartments, etc.) and Insurance.	
		4.2 International Tour Pre-planning: Need and types of passport	
		and visa, documents required for passport and visa, other	
		necessary documents required for International tours,	
		International Date Line, Time difference, GMT and Indian	
		Standard Time with help of internet sources.	
		4.3 One short tour (Not more than two days duration) and	
		Preparation of tour report.	

Text Books:

- 1. Bhatia. Tourism Development (New Delhi, Sterling)
- 2. Seth: Tourism Management (New Delhi, Sterling)
- 3. Kaul: Dynamics of Tourism (New Delhi, Sterling)
- 4. Mill and Morrison The Tourism system an Introductory Text (1992) Prentice Hall
- 5. Cooper, Fletcher, Tourism, Principles and practices (1993) Pitman
- 6. Burkart and Medlik Tourism, Past, Present and Future (1981) Heinemenn, ELBS.
- 7. P.S. Gill, Dynamices of Tourism (4 Vols) Anmol Publication.
- 8. P.C. Sinha, Tourism Management. Anmol Publication.

References:

- 1. Travel Industry: Chunky Gee et-al
- 2. Tourism Systems Mill and Morisson
- 3. Tourism Management Vol 4 P.C. Sinha
- 4. Tourism Development R. Gartner
- 5. Studies in Tourism Sagar Singh
- 6. Tourism: Principles and Practices Cooper C., Fletcher J., Gilbert D and Wanhil.
- 7. Tourism: Principles and Practices McIntosh, R.W.
- 8. Tourism: Past, Present and Future Burkart & Medli